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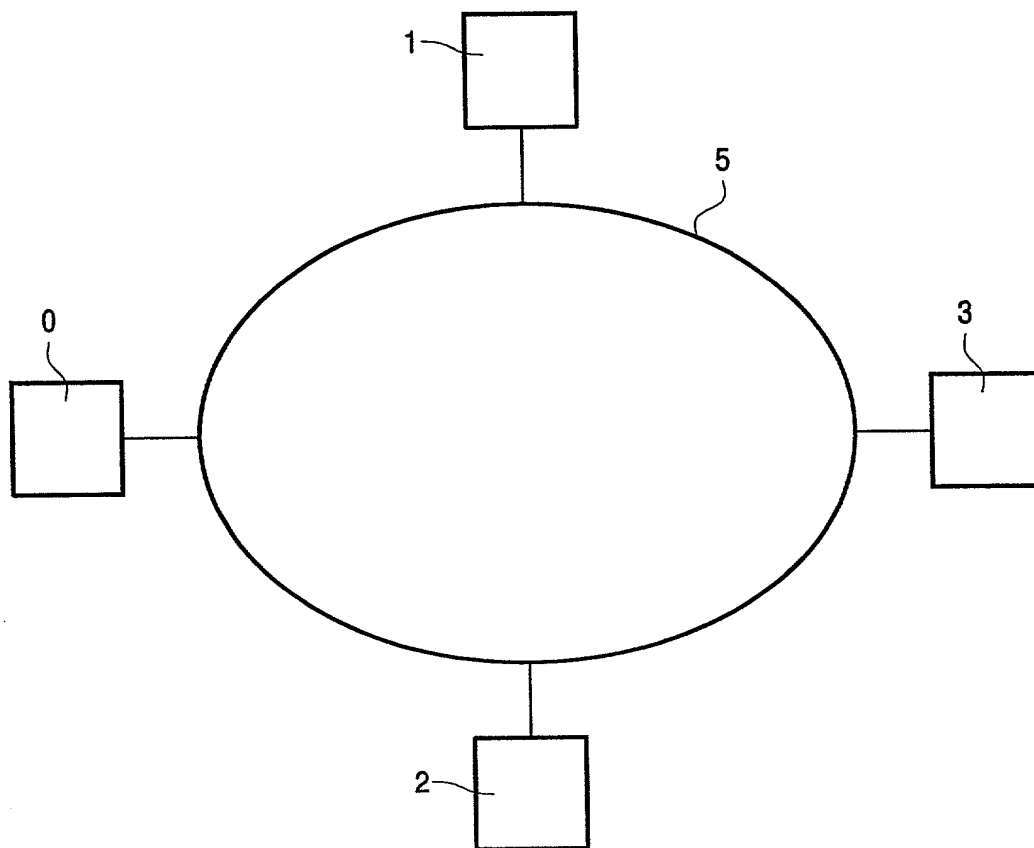


FIG. 1

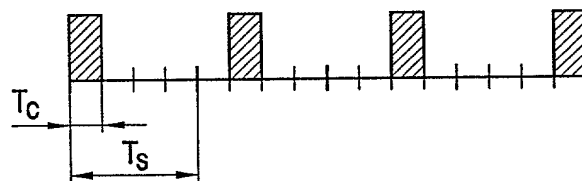


FIG. 2

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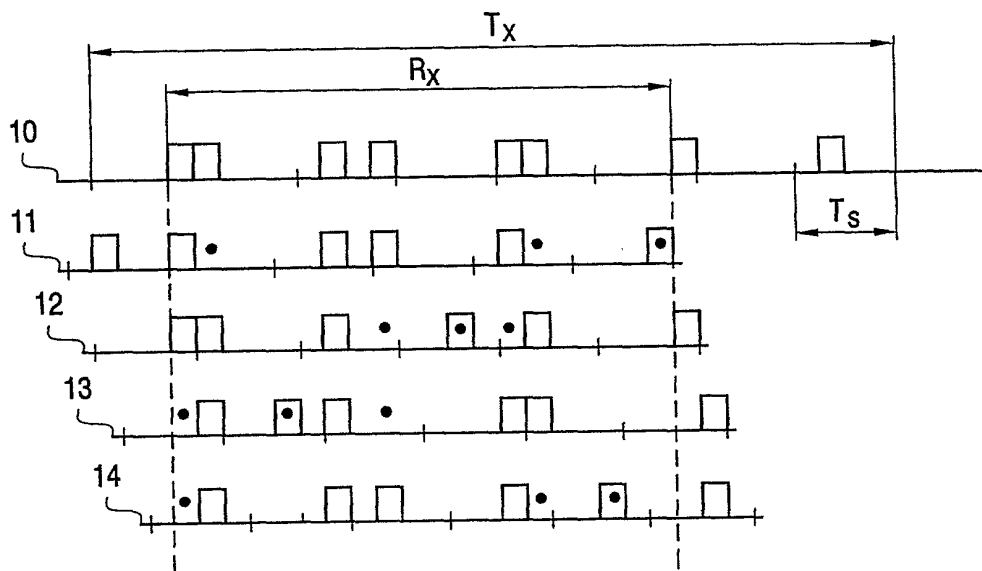


FIG. 3

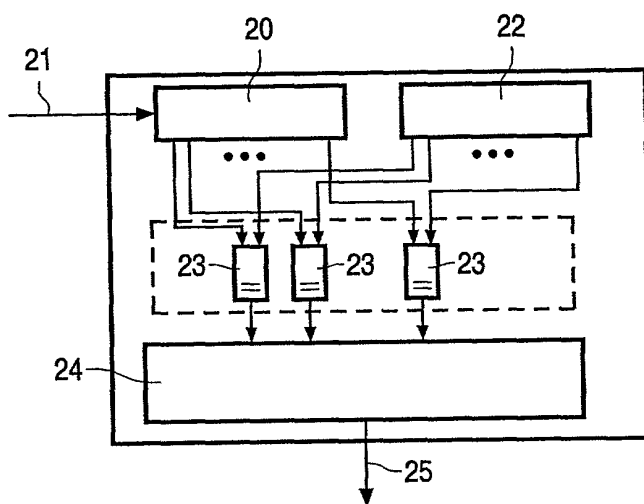


FIG. 4

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Hamming distance 3

FIG.5

• $N_{tx,min}$: 32 Chip

• $N_{rx,min}$: 20 Chip

0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0
1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 1 0 0 0 0 0 0
0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0
1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 1 0 0 0 0 0 0
0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 1 0 0
1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 1 0 0 0 0 0 0
0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0
1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 1 0 0 0 0 0
0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 0 0 0 1 0 0 0
1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 1 0 0 0 0 0
0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 0 0 0 0 1 0 0
1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 1 0 0 0 0 0
0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 1 0 0 0
1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 1 0 0 0 0 0
0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0
1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 1 0 0 0 0 0
0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 1 0
1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0
0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 1 0 0
1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0
0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 1 0 0
1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0
0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 1 0
1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0
0 1 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0
0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1
0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0
0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1
0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0
0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1
0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0
0 0 0 0 1 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1

FIG. 8